

FIG.1

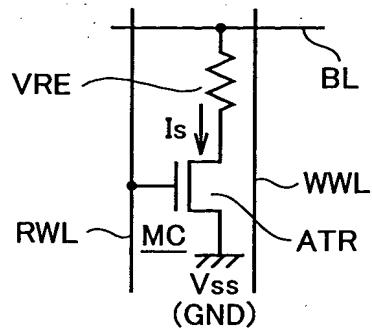


FIG.2

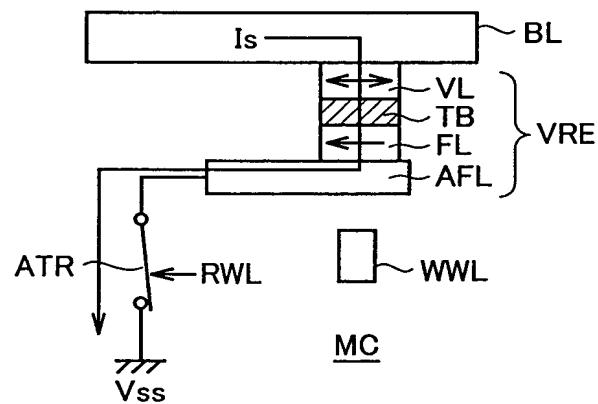


FIG.3

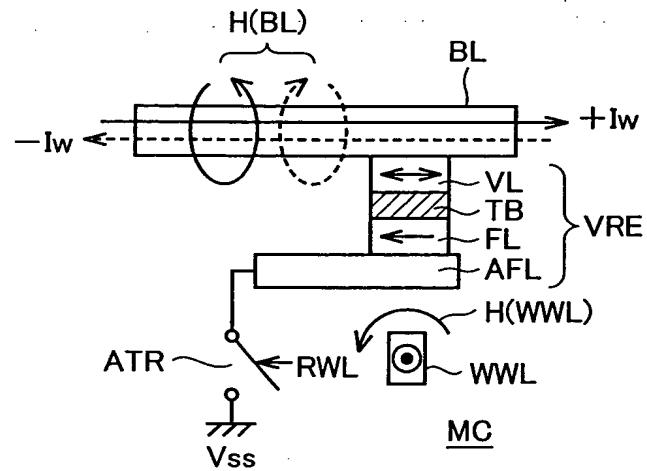


FIG.4

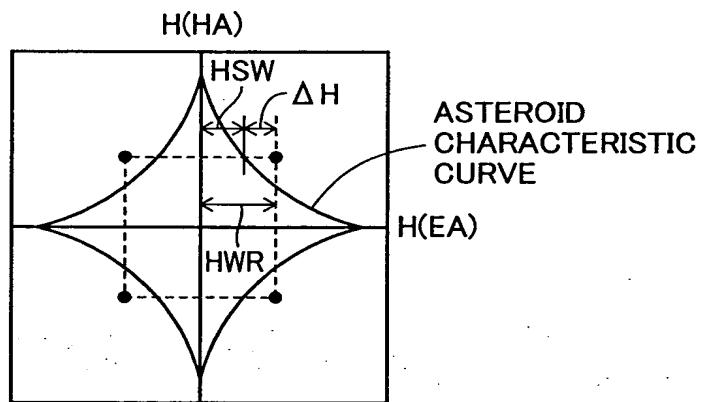


FIG.5

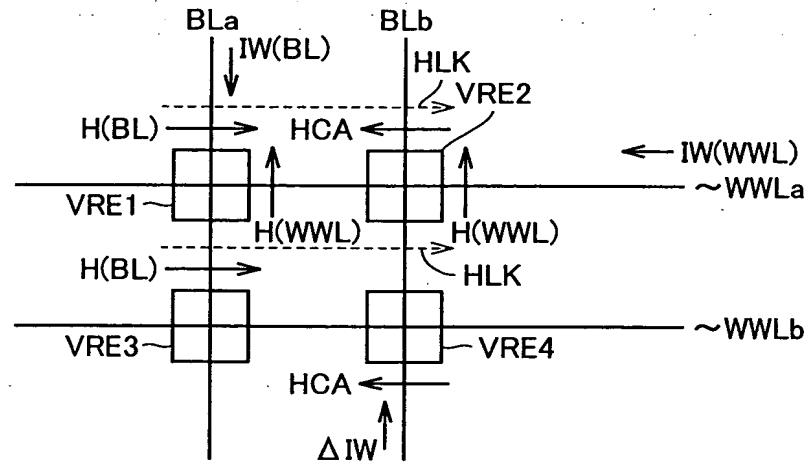
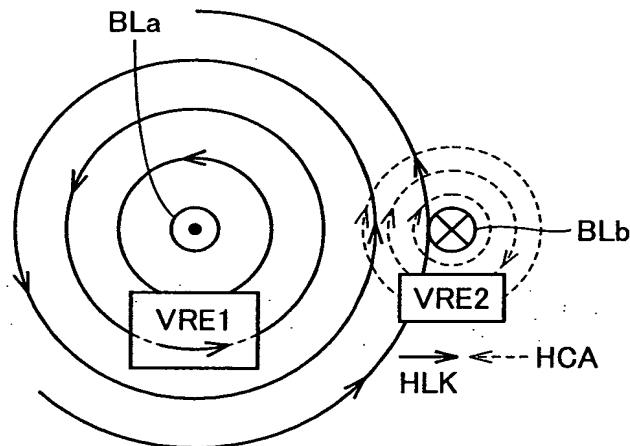


FIG.6



1

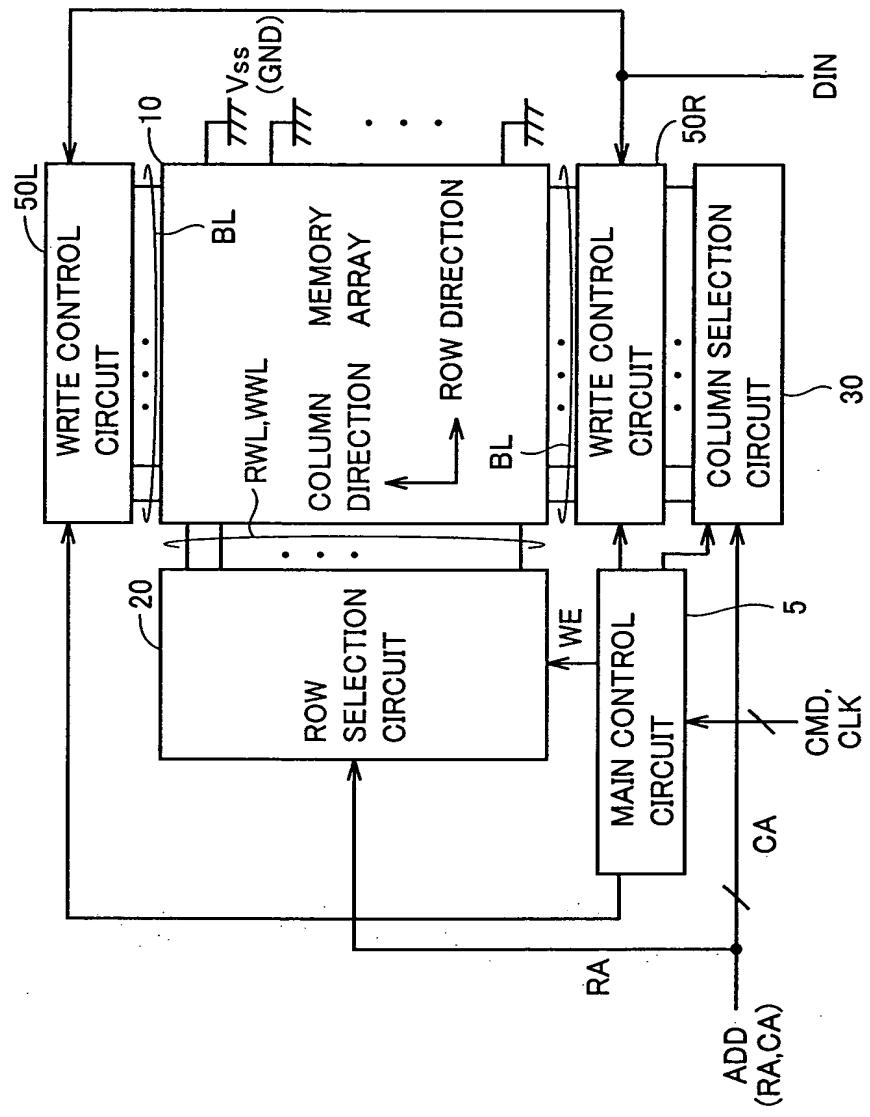


FIG.7

FIG.8

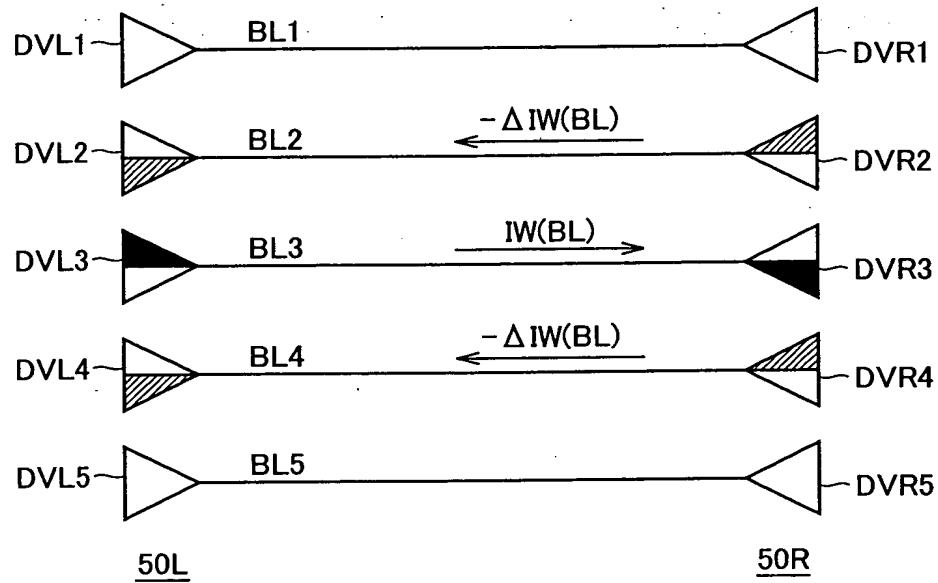


FIG.9

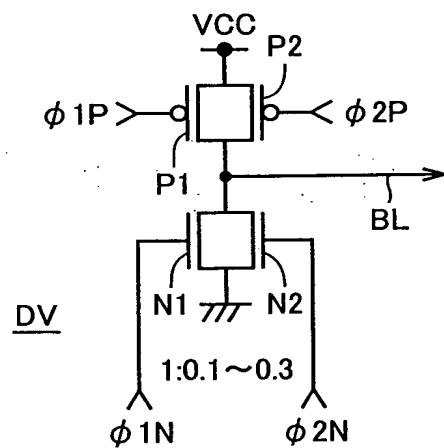


FIG.10

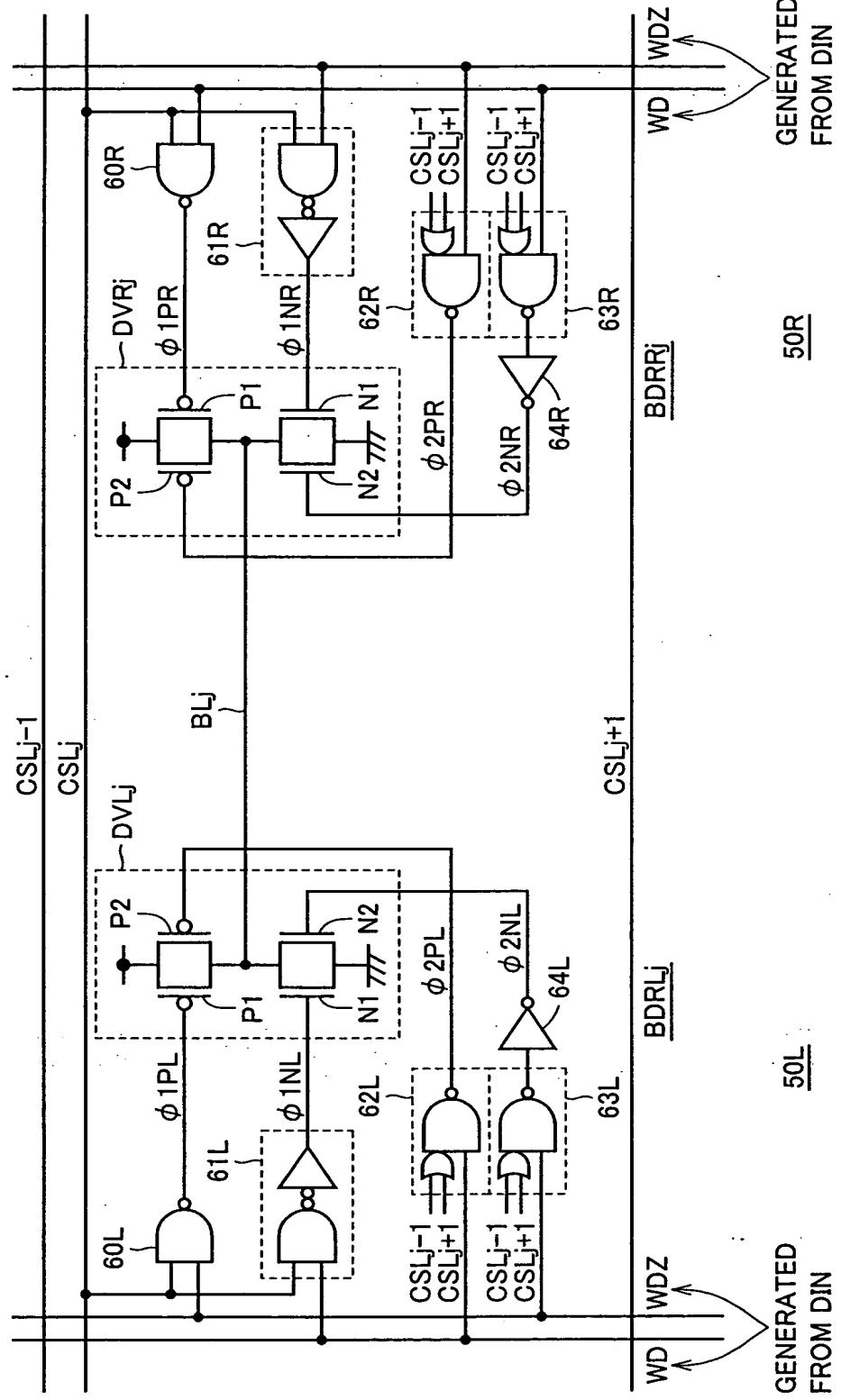


FIG.11

		WD=H (WRITING OF "0")		WD=L (WRITING OF "1")	
	NOT SELECTED	BLj SELECTED	ADJACENT BL SELECTED	BLj SELECTED	ADJACENT BL SELECTED
$\phi 1PL$	H	H	H	L	H
$\phi 1NL$	L	H	L	L	L
$\phi 2PL$	H	H	L	H	H
$\phi 2NL$	L	L	L	L	H
$\phi 1PR$	H	L	H	H	H
$\phi 1NR$	L	L	L	H	L
$\phi 2PR$	H	H	H	H	L
$\phi 2NR$	L	L	H	L	L
CURRENT DIRECTION OF BLj	X	L \leftarrow R	L \rightarrow R	L \rightarrow R	L \leftarrow R

FIG.12

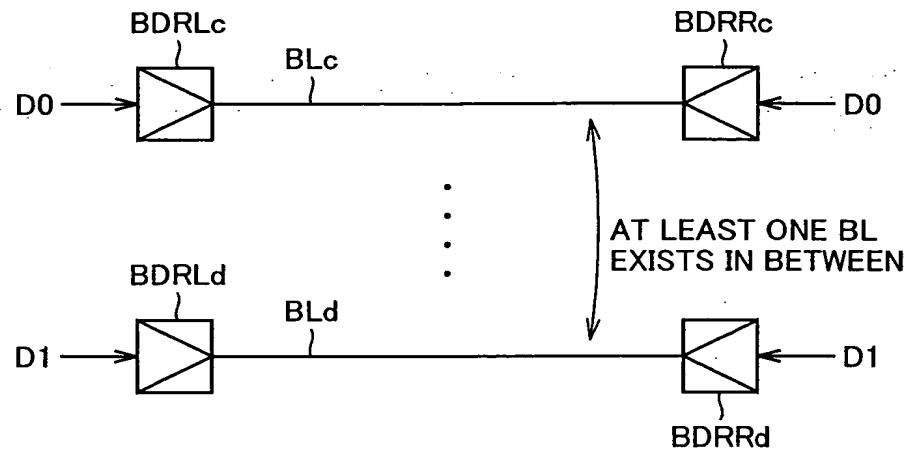


FIG.13

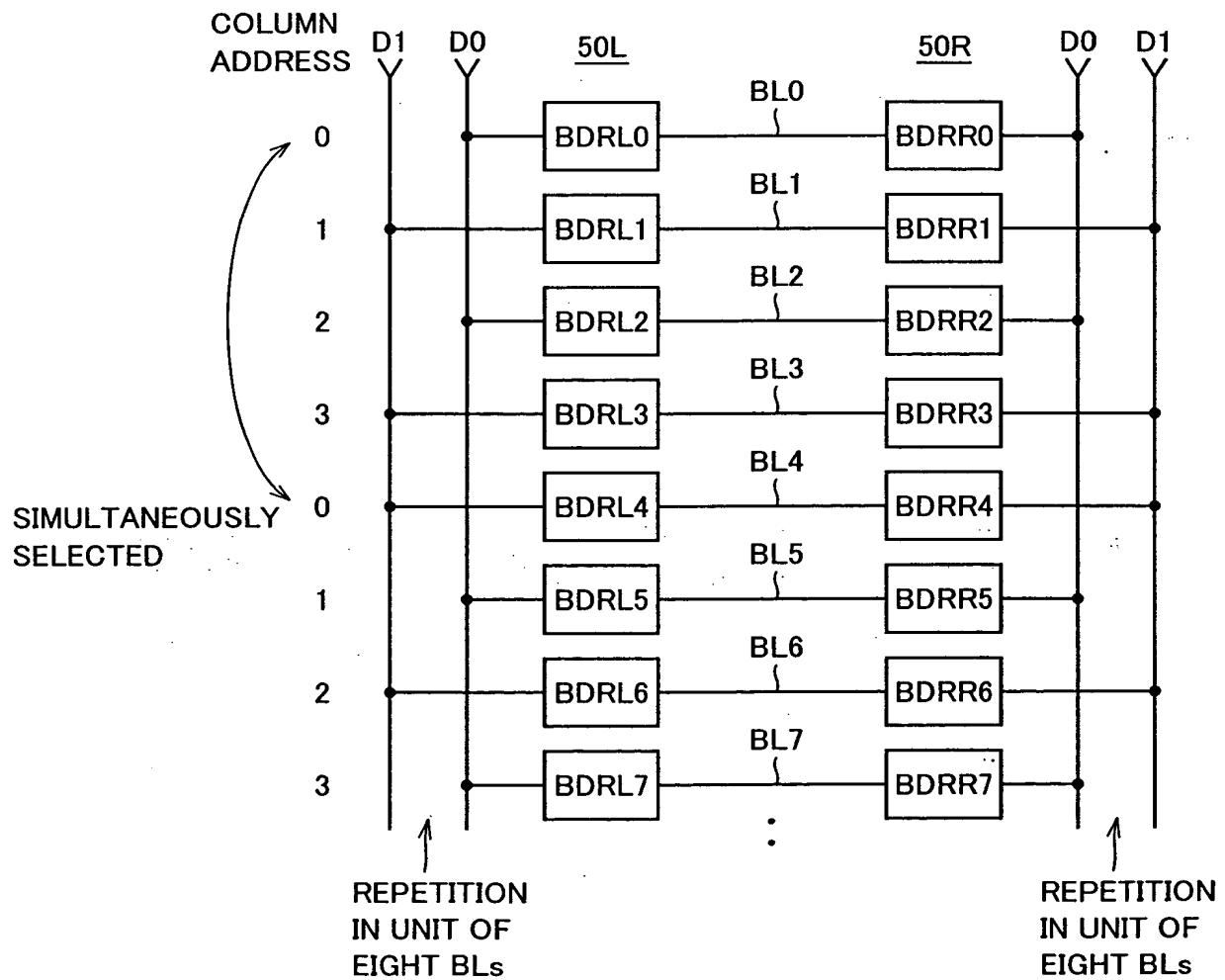


FIG.14

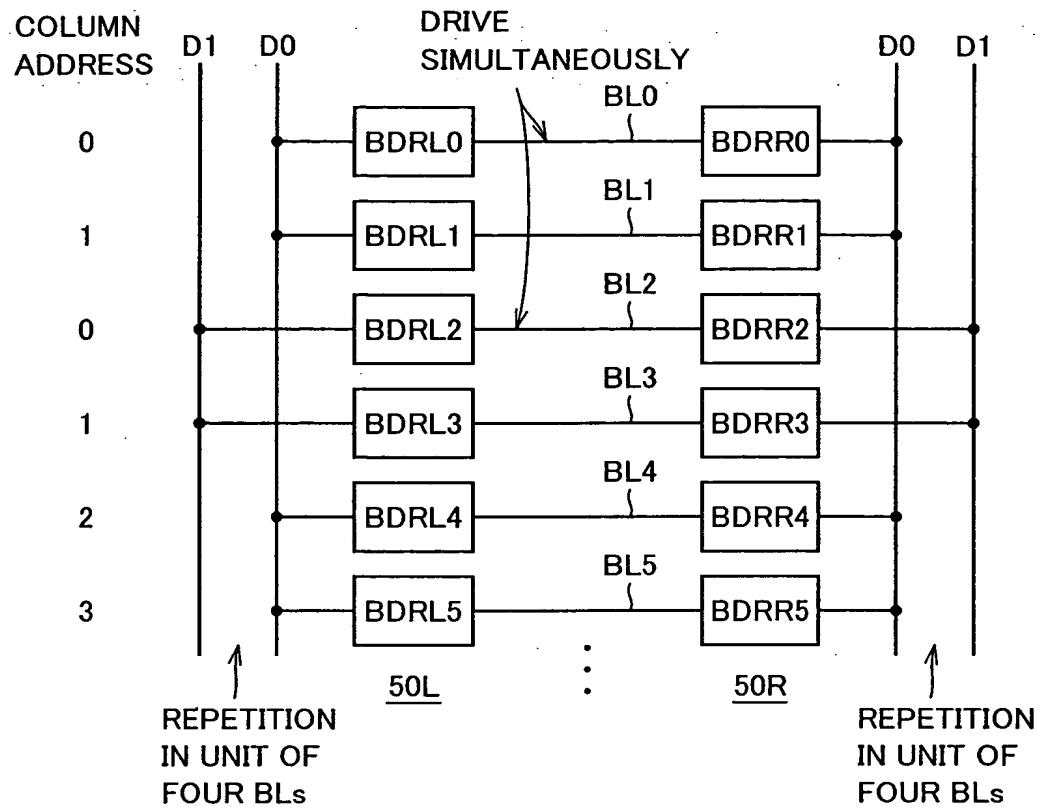


FIG.15

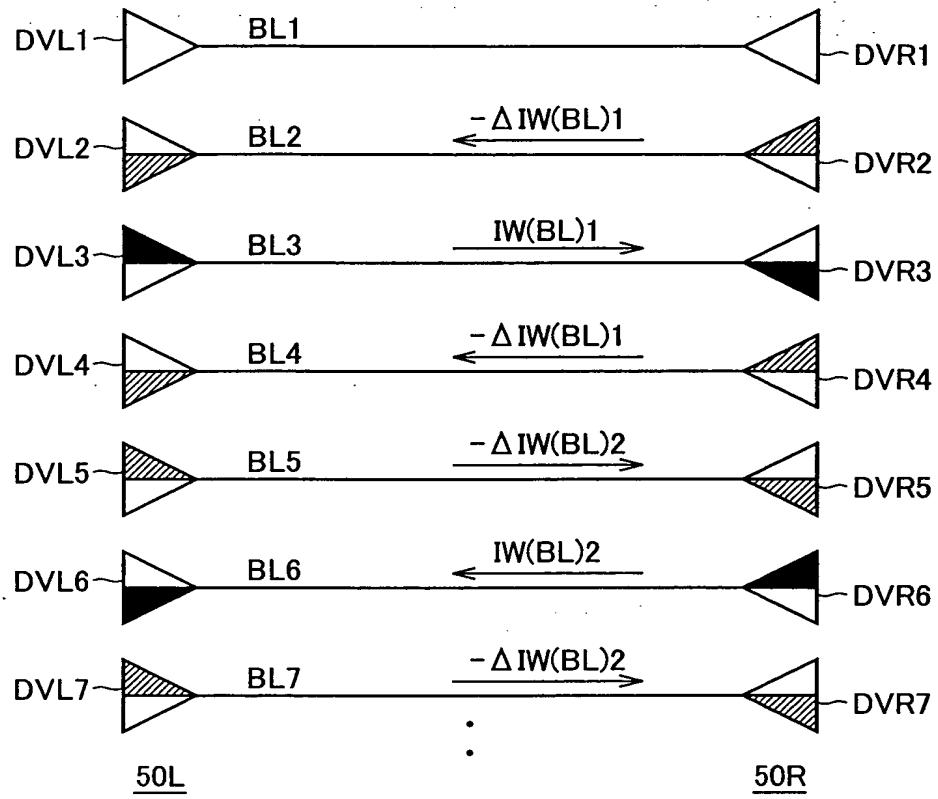


FIG.16

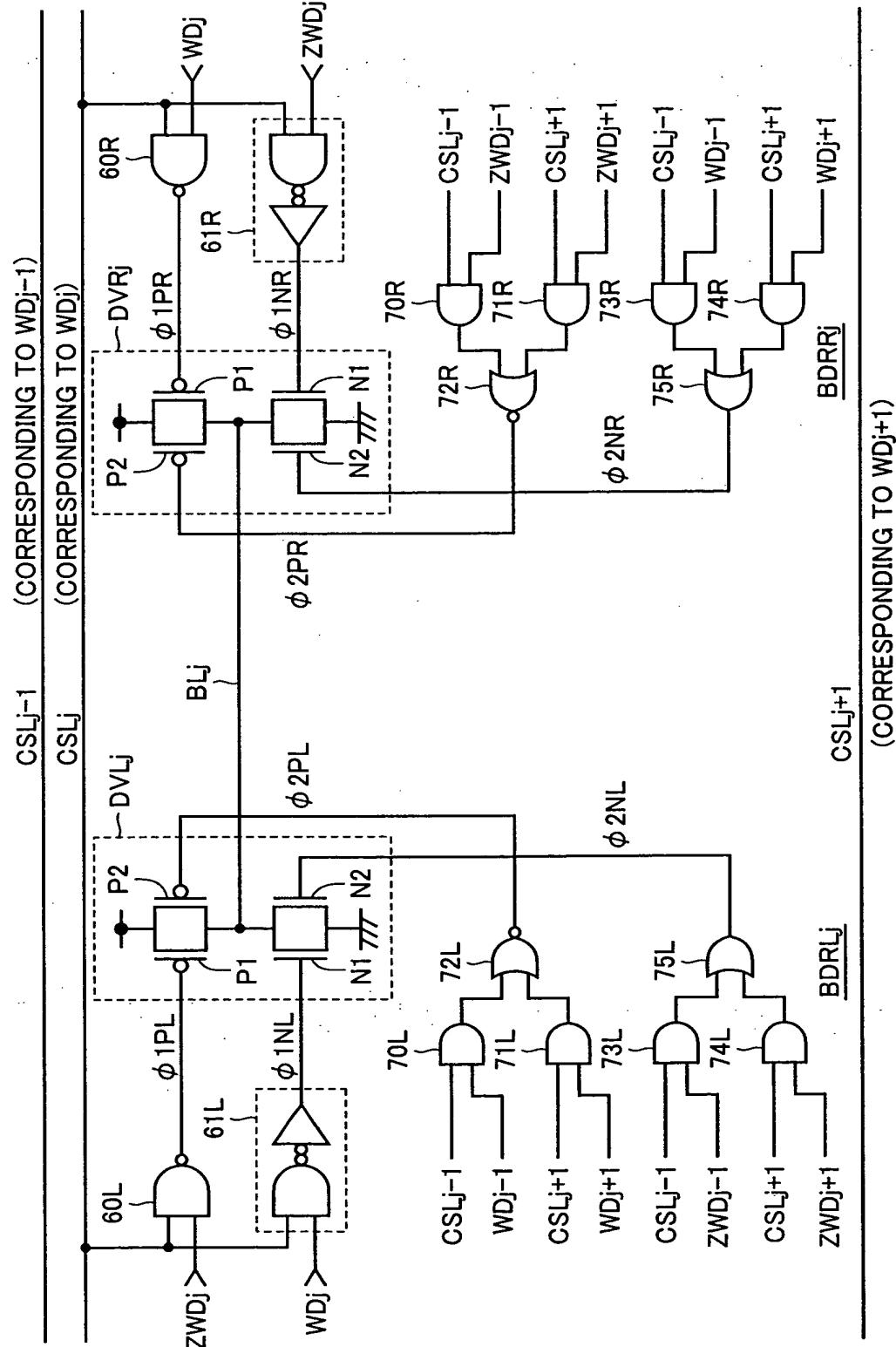


FIG.17

	NOT SELECTED	SELECTED CSLj-1		SELECTED CSLj+1	
		WDj-1 =H	WDj-1 =L	WDj+1 =H	WDj+1 =L
ϕ 2PL	H	L	H	L	H
ϕ 2NL	L	L	H	L	H
ϕ 2PR	H	H	L	H	L
ϕ 2NR	L	H	L	H	L
CURRENT DIRECTION OF BLj	X	L→R	L←R	L→R	L←R

FIG.18

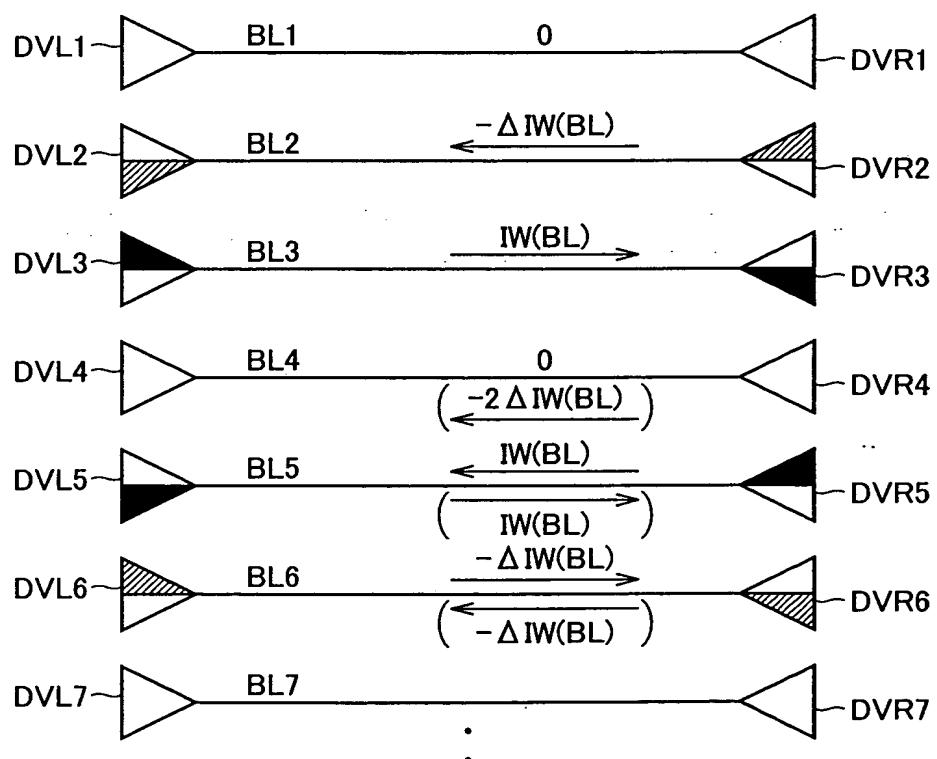


FIG.19

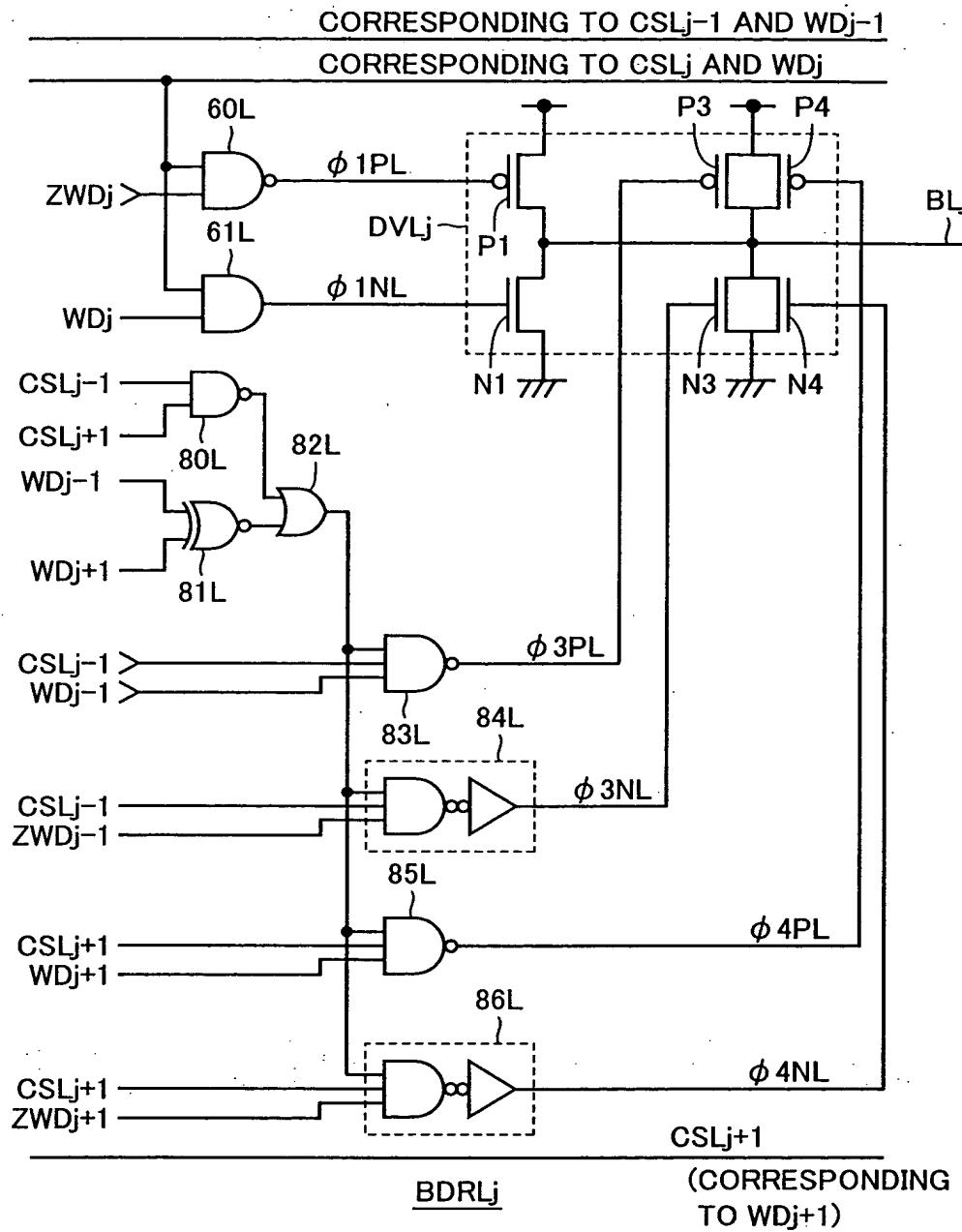


FIG.20

CS_{Lj-1}	CS_{Lj+1}	WD_{j-1}	WD_{j+1}	ϕ_{3PL}	ϕ_{3NL}	ϕ_{4PL}	ϕ_{4NL}	BL_j CURRENT
L	L	-	-	H	L	H	L	0
L	H	-	H	H	L	L	L	$\Delta IW \xrightarrow{\nearrow}$
L	H	-	L	H	L	H	H	$\Delta IW \xleftarrow{\searrow}$
H	L	L	-	H	H	H	L	$\Delta IW \xleftarrow{\searrow}$
H	L	H	-	L	L	H	L	$\Delta IW \xrightarrow{\nearrow}$
H	H	L	L	H	H	H	H	$2 \cdot \Delta IW \xleftarrow{\searrow}$
H	H	H	L	H	H	L	H	0
H	H	H	H	L	L	L	L	$2 \cdot \Delta IW \xrightarrow{\nearrow}$

FIG.21

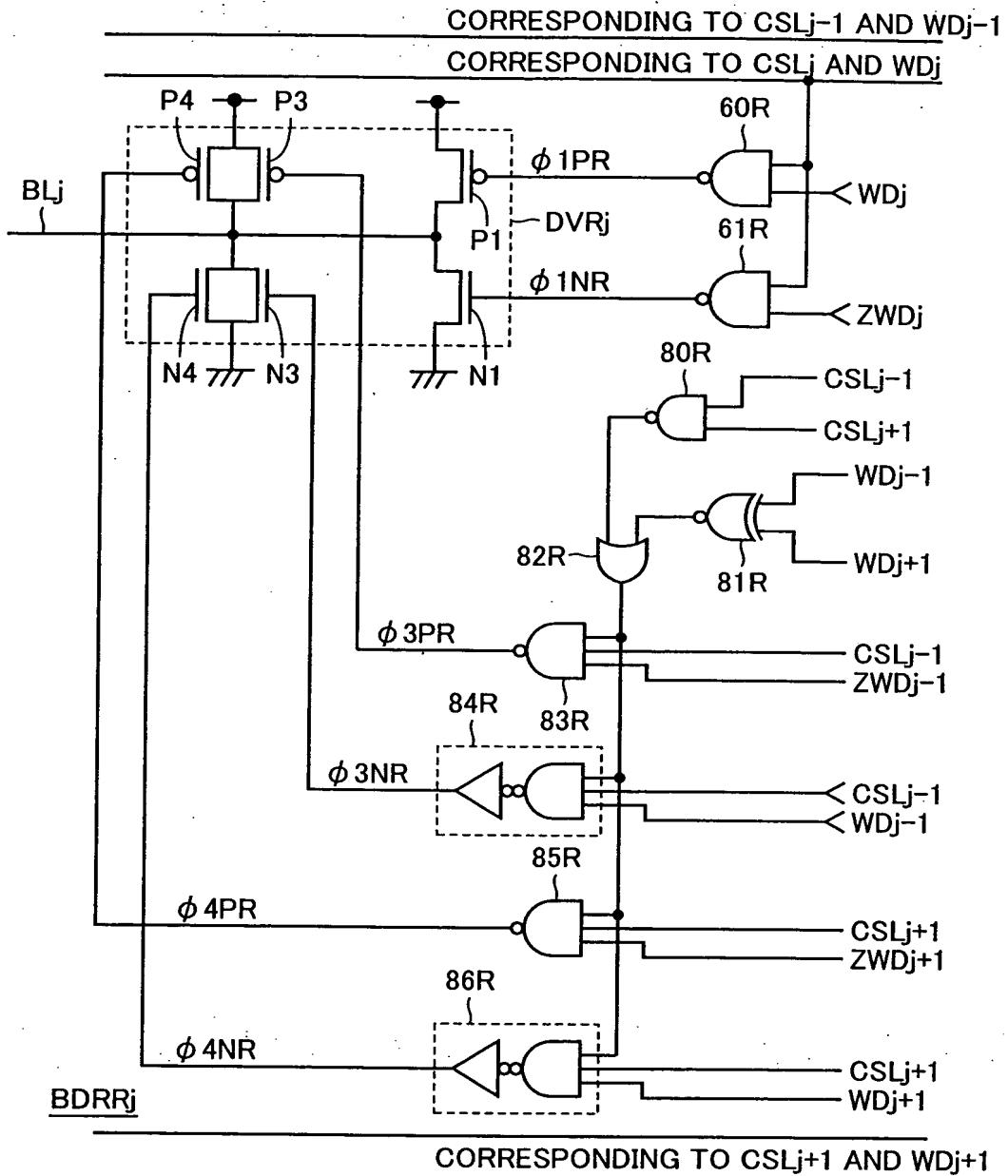


FIG.22

$CS_{i,j-1}$	$CS_{i,j+1}$	WD_{j-1}	WD_{j+1}	ϕ_{3PR}	ϕ_{3NR}	ϕ_{4PR}	ϕ_{4NR}	BL_j CURRENT
L	L	-	-	H	L	H	L	0
L	H	-	H	H	L	H	H	$\Delta IW \rightarrow$
L	H	-	L	H	L	L	L	$\Delta IW \leftarrow$
H	L	L	-	L	L	H	L	$\Delta IW \leftarrow$
H	L	H	-	H	H	H	L	$\Delta IW \rightarrow$
H	H	L	L	L	L	L	L	$2 \cdot \Delta IW \leftarrow$
H	H	H	L	H	H	L	H	0
H	H	H	H	H	H	H	H	$2 \cdot \Delta IW \rightarrow$

FIG.23

